DOCUMENT RESUME

ED 059 249

TM 001 063

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TITLE

Analysis of the Methods Used for Identifying Potential School Dropouts. Final Report.

INSTITUTION

George Washington Univ., Washington, D.C.

SPONS AGENCY

District of Columbia Board of Education, Washington,

D.C.

PUB DATE

Jan 69 35p.

EDRS PRICE DESCRIPTORS

MF-\$0.65 HC-\$3.29

Adjustment (to Environment); Attendance Patterns; Behavior Problems; Correlation; *Disadvantaged

Environment: Dropout Characteristics: *Dropout Identification: Dropout Prevention: Dropout Research:

Identification: Dropout Prevention: Dropout Research; Educational Retardation: Elementary School Students:

*Evaluation Methods; Factor Analysis; Family

Environment; Health Conditions; *Potential Dropouts;

Program Evaluation; Research Methodology;

Socioeconomic Status; *Student Evaluation; Urban

Dropouts; Youth Programs

IDENTIFIERS

*Elementary and Secondary Education Act Title I;
Pupil Personnel Worker Team Evaluation Form (PPTF);
Student Evaluation Form (SEF); Student Identification

Form (IDF)

ABSTRACT

This final report analyzes the research methods used in the identification of potential dropouts. This program was administered under Title I (ESEA, 1965) in the District of Columbia (see also ED 049 319). Three forms were used in the evaluation of Title I students identified as potential dropouts during the school year 1967-68: (1) Student Identification Form (IDF) Student Evaluation Form (SEF) and (3) Pupil Personnel Worker Team Evaluation Form (PPTF). To study the interrelationship of the variables contained in these three forms, a sample was obtained for which all three forms were available. Factor analysis of the data was carried out and the statistical findings as well as the instruments are appended. (CK)



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ANALYSIS OF THE METHODS USED FOR IDENTIFYING POTENTIAL SCHOOL DROPOUTS

Government of the District of Columbia Department of Public Schools N.S. Contract No. 10-252

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FINAL REPORT

January 1969

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ANALYSIS OF THE METHODS USED FOR IDENTIFYING POTENTIAL SCHOOL DROPOUTS

Final Report

I. PROBLEM

One of the essential elements in the administration of programs under Title I of the Elementary and Secondary Education Act of 1965 in the District of Columbia Schools is the identification of potential dropouts, or "identified students." The form "Instrument for Identifying Potential School Dropouts," has been used for this purpose for three years. A copy of the form used during the school year 1967-68 is attached to this report in Appendix B. An earlier edition of the form was first used for obtaining the lists of "identified students" in 1965. This form was constructed on an a priori basis with the best judgments available at the time as to the essential elements causing dropout.

After three years of experience with the use of the form, and using information available from sources other than those available to the principals and teachers concerning the actual needs of students in Title I target schools, this form and the procedures for identifying potential school dropouts should be revised. This revision takes on additional urgency as the number of schools in which Title I funds are being used this school year has been substantially reduced in order to allow more concentration of efforts on "identified students."

II. INTRODUCTION

Three forms were used in the evaluation of Title I students identified as potential dropouts during the school year 1967-68. These were an identification form (IDF) filled out in the fall of 1967 by the principals of each school with the assistance of classroom teachers; a Student Evaluation Form (SEF) filled out by teachers in the late spring of 1968; and the Fupil Personnel Worker Team Evaluation Form (PPTF) filled out by the Pupil Personnel Team Workers (and assistants) during the school year. Copius of the forms are attached in Appendix B to this report.

III. PROCEDURE

In order to study the interrelationship of the variables contained in these three forms, a sample was obtained for which all three forms were available. The sample was drawn from the elementary schools in this group so that the results would be pertinent to the children and schools in the 1963-69 school year target schools.



The sample was drawn by taking every fifth IDF in these schools, finding the PPTF which corresponded to it, and then running the student identification numbers for this set against the record of SEF's in the data bank. The resulting sample contained 252 names. Of the 75 variables in the matrix, 12 items came from the IDF, 22 from the SEF, and 40 from the PPTF. The 75th item was sex.

IV. FINDINGS

A. Factor Analysis of Data

A table of intercorrelations and a factor analysis were obtained from these 75 variables. Table A-1 in Appendix A of this report describes each of these variables and gives the means, standard deviations, N's, and the source of the data. Table A-2 in Appendix A gives the intercorrelations obtained. The N's in each cell varied from zero (in cells involving variables 1, 4, 5, and 6) to 252 where data were available on all cases. Table A-3 in Appendix A shows the four factors obtained by continuing extraction until the last factor accounted for an increase of less than 5% of the total variance. Varimax rotation was obtained by using the program of The George Washington University Computer Center. These four factors accounted for 28.49% of the total variance.

The factors can be briefly described as:

Factor I - Home Environment and School Adjustment - PPTF

Factor II - School Adjustment - SEF
Factor III - Academic Retardation - IDF

Factor IV - Behavioral Problems - all instruments

Personnel Team Evaluation Forms, with the highest loadings on the questions concerning personal characteristics (48-53)*, home environment (44-47), and attitude toward school (36). Two items from the IDF had their highest loading on this factor -- absenteeism (7) and evidence of economic need (11). This indicates that those students judged by the principal as having trouble with absenteeism and economic need were also likely to have unfavorable homes and undesirable personal characteristics as evaluated by the Pupil Personnel Teams, BUT NOT AS EVALUATED BY THE CLASSROOM TEACHERS, since teacher evaluations of these same personal characteristics do not appear in this factor.

FACTOR II is composed primarily of variables obtained from the SEF. The highest loading was found on variable 17 (item 5), attitude toward school. Sixteen of the 22 items obtained from this form had their primary loadings on this factor, and these loadings ranged from -.77 to -.42. None of the variables obtained from the PPTF had their highest loadings on this factor. Only one of the items from the IDF was found with the highest loading here - this was variable 5, grade retention, which had a loading of -.29.



- 2 - .

^{*} Numbers in parentheses refer to the variables in the correlation matrix and factor analysis (Tables A-1, A-2, and A-3, in Appendix A).

FACTOR III came primarily from the IDF. The highest loading was for the variable obtained from adding up the number of checkmarks on the IDF (12), which had a loading of .68. There were two others which had high loadings - severe reading retardation (3) and severe arithmetic retardation (4). Four other variables from this form had their highest loading on this factor, making a total of six out of twelve from the IDF. Only two items from the SEF had their highest loading on this factor - the Social Adjustment Class variable (34) and alert-dull (30). However, four other variables had relatively high loadings although their highest loadings were found on Factor II.

FACTOR IV came from all three forms and from the variable Sex. The variables having their highest loading on this factor were:

Source	<u>Variable</u>	Description	Loading*
IDF	10 9	Behavioral problems Evidence of health problems	.5729 2565
	,	Evidence of Health brootems	
SEF	26	Shy - Aggressive	.5896
	23	Defiant - Submissive	5463
	29	Follower - Leader	.4544
	21	Below average Health	 3578
PPTF	59	Behavioral (adjustment) problems	.6122
	38	Trouble because of fighting (Never)	5624
	40	Trouble with neighbors (Never)	4890
	50	Shy - Aggressive	.4426
	54	Few contacts with students	.3627
	39	Trouble with police (Never)	2990
	75	Few contacts with parents	.2606
	55	Physical (medical) problems	2542
Sex	35	Being a girl	3465

*Sign reversed to assist in the explanation.

This factor describes the students who were found by the principal to have more than average behavioral problems, and few health problems. These same students were found by their teachers to be defiant, aggressive, and to exhibit leadership characteristics. The Pupil Personnel Teams found these students to be aggressive, to have behavioral problems, to get into trouble with neighbors and the police, and to get into trouble fighting with their contemporaries. The Teams also had fewer than average contacts with these students and with their parents. They were also found to have fewer than average physical or medical problems.

B. Interrelationships Among Variables

One of the important findings of this analysis is that there was very little correlation between the reasons for classifying these students as "identified" and the evaluations of either the teachers or the Pupil Personnel Teams. Each item on the IDF was selected because it was thought to bear directly on whether or not a student was likely to drop out of school. In the sample studied, the average number of checkmarks on the IDF was 2.5 per child. The two items most frequently checked (See Appendix A, Table A-1) were Poor risk reading readiness and Evidence of economic need. In the following paragraphs, each of the items will be considered in its relationship to the evaluation of the teachers and the Pupil Personnel Teams.

The reasons most often given for classifying a student as "limitified" and the ones on which most Title I efforts are centered, are reading
and language difficulties. The first three variables on the IDF reflected
this concern. There was only one item in the SEF which bore directly on
reading - How well does he like to read? (10). Another SEF item which was
related was How well does this pupil do his school work? (14) There were
three items on the PPTF related to reading and language problems - Slow
learning problems (56), Referral to Reading Clinic (63), and Referral to
Speech Clinic (64). Table 1 below was extracted from Table A-2 (see
Appendix A) for these eight variables, and shows the interrelationship among
them.

TABLE 1

Intercorrelations Among Principal, Teacher,
and Pupil Personnel Team Evaluations
Connected with Reading and Language Difficulties

Vari-			. V	a r i	a b	1 e	N 1	um b	e r	
able	Description	Source	1	2	_ 3	14	<u> 19:</u>	56	63_	64
1	Poor risk :dg. readiness	IDF		.11	.26	.23	•30	.27	.06	.14
2	Speech-language problems	IDF	.11		.14	.08	.08	.17	.14	•52
3	Severe rdg. retardation	IDF	.26	.14		.36	.29	.35	.30	.19
14	School work	SEF	.23	.08	.36		.75	.24	.22	.10
1.9	Reading	SEF	.30	.08	.29	.75		.23	.18	.09
56	Slow learning problems	PPTF	.27	.17	. 3 5	.24	.23	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.22	.13
63	Referral to Rdg. Clinic	PPTF	.06	.14	.30	.22	.18	.22		.37
64	Referral to Speech Clini	c PPTF	.14	.52	.19	.10	.09	.13	.37	

The important aspect of this table is that there was little correlation between these variables. It is almost as though these items were independent of each other. Teacher evaluations of School work correlated .75 with her estimate of Reading ability (14 vs 19) but correlated only .29 with the IDF variable of Severe reading retardation (3 vs 19). A correlation of .29 gives a variance of less than 10%, which means that the principal and the teacher agreed in only 10% of the cases as to reading difficulty. As for the PPTF, it showed that Referral to the Reading Clinic correlated .30 with Severe reading difficulty (63 vs 3), and showed a .35 correlation between PPTF Slow learning problems and Severe reading difficulty (3 vs 56). The prediction of Speech and language difficulty by the IDF was better, as it had a correlation of .52 with the PPTF Referral to the Speech Clinic (2 vs 64). It should be noted that being Referred to the Speech Clinic was moderately related to Referral to the Reading Clinic, with an r = .37 (63 vs 64).

Being classified by the principal as "identified" because of grade retention (5) appeared, more than anything else, to be related to all the negative characteristics on the classroom teacher evaluation. This is the well-known "halo effect" in reverse. This relationship showed up quite strongly as Factor II. However, there was no such "halo effect" as far as the PPTF was concerned. The most conspicuous contrasts between teacher and PPTF evaluations are seen when the adjective scale (semantic differential) variables from the two forms are compared. These correlations are shown in Table 2 below:

TABLE 2 Correlations Between Corresponding Adjective Scale Items on the SEF and the PPTF

Description	SEF	PPTF	N	r
Uncooperative - Cooperative	(24)	(48)	242	.13
Friendly - Hostile	(25)	(49)	247	.05
Shy - Aggressive	(26)	(50)	238	•20
Irresponsible - Responsible	(27)	(51)	238	.22
Neat - Unkempt	(28)	(52)	245	.19
Alert - Dull	(30)	(53)	236	.31

The Grade retention (5) variable was derived from the forms obtained from the primary grades, while the Course failure (6) variable was derived from the intermediate grades and above. For this reason it was not possible to inter-correlate them. It was thought that these two variables would indicate somewhat the same thing, but the factorial structure and correlation matrix show otherwise. <u>Grade retention</u> has a -.29 loading on Factor II and a .22 loading on Factor III. However, <u>Course failure</u> has its loading only on Factor II.

Another cause of being classified as an "identified" student is Absenteeism (7). The principal must base his evaluation of absenteeism on the previous year's record, since the IDF is filled out at the beginning of the school year. The teacher's report of absenteeism comes at the end of the year, as does the Pupil Personnel Team evaluation. Table 3 below shows the relationship among variables related to absenteeism:

TABLE 3

Correlations Among Variables Related to Absenteeism

Vari-				Varial	ole :	Vucher	
able	Description	Source	7	31_	32	36	57
7	Absenteeism	IDF	4	.28	.29	.27	.65
31	Number of days absent	SEF	.28	en arminani	.79	.17	•27
32	Number of days absent unexcuse	d SEF .	.29	.79		.24	. 26
36	Attitude toward school	PPTF	.27	.17	.24	որդըրդուստո	.27
57	Problems with absenteeism	PPTF	.65	.27	.26	.27	

There is a rather high correlation between whether the principal had designated absenteeism as a problem and whether the PPTF found this as a problem (r = .65). However, the correlation is rather low with the number of days absent or unexcused. This might be due to the efforts of the Pupil Personnel Teams. This should be investigated further to see whether there is any relationship between days absent and Team attention.

The variable of <u>Two or more school transfers</u> (8) has very low incidence in this sample, as only 1.6% of the sample was checked on this item (see Table A-1 in Appendix A).

There are four items related to health problems and their relationship to dropout. These are shown in Table 4:

Correlations Among Variables Related to Health Problems

Vari-		-	٧٤	riable		
able	Description	Source	9	21	55_	71
9	Evidence of health problems	IDF		.12	.49	.15
21	How is his health	SEF	.12		.06	02
55	Physical problems	PPTF	.49	.06	-	.11
71 .	Referred by school nurse	PPTF	.15	02	.11	

It will be seen that there is little relationship between the teacher evaluation of health and that of the principal or the Pupil Personnel Team. About 8% of the students in this sample were thought to have evidence of health problems. From the PPTF about 11.5% have physical problems. However, there is an r of only .49 between these two groups. The most obvious explanation is the Health problems on the IDF is not the same as Physical problems on the PPTF. This probably should be investigated. Another consideration is what happens to those students with Physical problems? The correlation of this variable (55) with Referral to the Speech and Hearing Clinic (64) (r = .26) would seem to indicate that these physical problems were related to speech and hearing more than any other referral covered in question 24 of the PPTF.

Behavioral problems (10) is another major item on which designation of students as potential dropouts is based. Almost 25% of our sample fall into this category. The variables that relate to this characteristic form Factor IV. This factor describes the students the teacher has marked as Defiant, Uncooperative, Aggressive, and Leaders. Teachers also marked them as not Getting on well with other children (15). On the PPTF this factor is associated with frequently Getting in trouble because of fighting (38) and in Trouble with police and Trouble with neighbors (39 and 40). The PPTF variable Aggressive (50) also carries a high loading on this factor. These pupils are the ones who require the most Contacts by the Pupil Personnel Teams (54). Behavioral (adjustment) problems (59) is also highly related. When the variables related to behavior are extracted from the correlation matrix, they form the pattern shown in Table 5 (see next page).

TABLE 5

Correlations Among Items Related to Behavioral Problems

Vari-	•			V	ar	lab	1 e	N	u m b	er			
<u>able</u>	Description S	ource	10						38		40	50	59
	Behavioral problems	•				24							
15	Gets along well with others	SEF	20	• • •	45	47	•31	•02	14	08	07	•03	.26
23	Defiant - Submissive	SEF	22	45		•68	62	38	.17	.07	.16	17	35
24	Uncooperative - Cooperative	SEF	24	47	.68		46	12	.21	.03	.15	05	34
26	Shy - Aggressive	SEF	.25	.31	62	46		.49	-,13	02	10	•20	.27
	Follower - Leader			•		12					-		-
38	Trouble because of fighting	PPTF	29	14	.17	•21	13	.00		.31	•44	24	46
		PPTF	17	08	•07	•03	02	08	.31		.29	11	1
	-	PPTF	18	07	•16	. 15	10	~•09	.44	.29		19	26
50		PPTF	.21	.03	17	05	•20	• 17	24	11	19		. 19
		PPTF	.56	.26	35	34	.27	•07	46	11	26	. 19	

The variable that correlates highest with the principal's evaluation of behavioral difficulties is the corresponding evaluation on the PPTF (59) where the r = .56. None of the variables from the SEF correlates this highly with either of these two. As the principal's evaluation (the IDF) was done at the first of the year, it is possible that the PPTF shows that the Teams have been effective. If the teacher evaluation made at the end of the year shows a real difference (as compared to the principal's evaluation), then the Teams may have helped to accomplish the improvement.

It is interesting to note that the PPTF variables about Trouble with the police (39) and Trouble with neighbors (40) do not have very high correlations with any other variables in the matrix. This is probably because this sort of activity is difficult to evaluate, and therefore may not be very reliable. In this sample, none of the girls was marked as having trouble "often" with neighbors - all were marked "occasionally" or "never". Of the boys, 30% had trouble "occasionally" and of the girls, 14% had trouble "occasionally."

Evidence of economic need (11) has its highest loading on Factor I and is associated with many variables from the PPTF pertaining to economic deprivation. It is interesting to note that it has its highest correlation with the Neat-unkempt (28) evaluation by the teacher (r = .24).

It has been found that the PPTF variable Other problems (61) usually means evidence of economic need. It will be seen that this, item, like the one from the IDF (11), has very low correlation with any other variable. Nor did it appear as very heavily loaded on any of these four factors. It correlates only .19 with the IDF variable.

There are several pairs of questions that appear on both the SEF and the PPTF. One of them is "How well do you understand him when he speaks?" The correlation is .16, which is low, but positive (18 vs 37). The other question is "How favorable is his attitude toward school?" Again, the correlation of .18 is low but positive (13 vs 36). As with the adjective scale items (Table 2), there is very little agreement between the teachers and the Pupil Personnel Teams regarding understanding speech or evaluating attitude toward school.

Another group of questions concerns home environment and its influence on school work. Teachers were asked "How does his home environment affect his school performance?" (20) The corresponding PPTF items, "Is his home environment conducive to school work?" (47), "How does his home compare with others in the neighborhood?" (44), "Which of the following describes how the inside of his home is kept?" (45), and "Does he have an adequate place to study?" (46), correlate .19, .14, .19, and .29, respectively. Perhaps some other questions about the effects of home environment should be asked of both the teacher and the Pupil Personnel Team.

V. Summary

These findings are based primarily upon a correlation and factor analysis of the data obtained from a random sample of the "Instrument for Identifying Potential School Dropouts" submitted by the principals of Title I elementary schools, and of corresponding evaluations made of the same students by teachers and Pupil Personnel Worker Teams during the school year 1967-68. The sample was taken from data collected in schools that were designated as Title I target schools.

In addition, the principal investigator has been working with these data over a period of three years and assisted in the development of both the Student Evaluation Form (SEF) and the Pupil Personnel Teams Evaluation Form (PPTF).

The findings of this study may be summarized as follows:

1. Principals, teachers, and Pupil Personnel Teams were in agreement as to which students had behavioral problems.

- 2. Behavioral problems proved to be the variable viewed most uniformly by the principal, teacher, and the Pupil Personnel Teams. While it did not correlate highly with Application to school work or to How well he does his school work, it did correlate fairly well with the three questions about Trouble and with Sex (being a boy).
- 3. Those students who have behavioral problems do not have health problems, and vice versa.
- 4. Evidence of health problems as defined by the IDF did not agree with evaluation of health as evaluated by the teachers or Teams. These problems seemed, rather, to be physical impairments of some kind not related to illness, probably connected with speech impediments or other serious physical handicap. Another possible cause of the low correlation here was the fact that the IDF was filled out at the beginning of the school year based on the previous year, while the PPTF was filled out during the year and the SEF was filled out at the end of the school year.
- 5. Teacher evaluations of undesirable characteristics (except for behavioral problems) did not correlate with those of the Pupil Personnel Teams.
- 6. Principals and Pupil Personnel Teams related unfavorable homes and undesirable personal characteristics with absenteeism and economic need.
- 7. Students designated by the principal (at the beginning of the year, based on the previous school year) as having an absenteeism problem were not the same ones that teachers (at the end of the school year) said had a large number of days absent, either excused or unexcused. As this sample includes only identified students, it is possible that the efforts of the Pupil Personnel Teams have reduced the absenteeism of these students. To verify this, however, would require comparison with non-identified students.
- 8. Excessive school transfers did not seem to be a problem in this sample.
- 9. Evidence of economic need as specified on the IDF was most clearly associated with those items on the PPTF related to socio-economic status. Teacher evaluations associated this variable only slightly with school performance. The factor analysis showed that this variable was also associated with excessive absenteeism according to the principal's evaluation.
- 10. The factor analysis showed that the students with the leader number of problems had them primarily with reading, speech, and arithmetic, and with course failure. This is probably because these combinations occurred most frequently in combination. The average student had two and one-half checks, boys having slightly more checks than girls.

VI. Recommendations

The form used for identifying potential dropouts in the District of Columbia Schools was developed to screen the students in target-area schools to find those who, in the opinion of the principal and the teachers, required a concentration of remedial programs. As the first estimate of the needs of students in Title I schools, and as a preliminary method of obtaining the caseload for the Pupil Personnel Teams, this form (and its subsequent revision) has probably served its purpose and should be replaced as a method of determining "potential dropouts."

It is therefore recommended that at the end of each year the Pupil Personnel Teams reevaluate their workload to determine which of the current year's "identified students" should be continued on the caseload into the next year.

The principal should continue to have the responsibility of adding to the list of identified students in his school whenever a situation arises in which need for the attention of the Pupil Personnel Teams or other remedial services or programs is indicated.

At the beginning of each school year, the principal would evaluate the needs of only students new to his school, such as kindergarten or first grade or those who had transferred from some non-Title I school.

It is further recommended that special efforts be made to evaluate the effectiveness of the procedures and special programs by the use of an independent criterion, such as the actual dropout of students. While it is difficult to determine the actual cause for dropout without extensive follow-up outside the school, the relative effectiveness of Title I programs could be checked by comparing the percentage of dropouts who had participated in Title I programs with other dropouts who had not been in Title I programs matched on the basis of teacher evaluations or standardized test scores. This comparison could be made with "identified students" as well.

It is also recommended that for each school the percentage of identified students in that school's total enrollment be determined in advance of each school year by prorating the number of cases needing further attention in the caseload of the Pupil Personnel Teams. This actual number of identified students in each school could vary within 10% of the number actually allowed. However, the reasons should be clearly stated by the principal for adding the student to the list after the new school enrollees have been screened.

APPEN.DICES

Appendix A

- Table A-1 N's, Means, Standard Deviations, and Descriptions of Variables from Identified Student Forms, Student Evaluation Forms, and Pupil Personnel Team Evaluation Forms 1968
- Table A-2 Correlations Among Variables Obtained from Identified Student Forms, Student Evaluation Forms, and Pupil Personnel Team Evaluation Forms 1968
- Table A-3 Factor Loadings for Four Factors Obtained by Varimax Factor Rotation and Corresponding Communalities, for 75 Variables from Identified Student Forms, Student Evaluation Forms, and Pupil Personnel Team Evaluation Forms 1968

Appendix B

Instrument for Identifying Potential School Dropouts (Pupils in Primary School - in grades Kindergarten through Grade 3)

Instrument for Identifying Potential School Dropouts (Students
in Grades 4 through 11)

Student Evaluation Form

Pupil Personnel Services Team Evaluation Form

TABLE A-1

N's, Means, Standard Deviations, and Descriptions of Variables from Identified Student Forms, Student Evaluation Forms, and Pupil Personnel Team Evaluation Forms - 1968

Vari-	•			
able				
No.	N	Mean	S.D.	Variable Description*
				From Identified Student Form:
1	93	47.312	50.198	% with "Poor risk" reading readiness
2	252	13.492	34.232	% with speech-language problems
3	252	44.444	49.789	% with severe reading retardation
4	159	45.912	49.990	% with severe arithmetic retardation
5	93	40.860	49.424	% with grade retention
6	159	26.415	44.227	% with course failure
7	252	15.873	36.615	% with excessive absenteeism
3	252	1.587	12.523	% with two or more transfers
9	252	7.937	27.085	% with evidence of health problems
10	252	24.603	43.155	% with evidence of behavior problems
11	252	47.222	50.022	% with evidence of economic need
12	252	2.4682	1.3954	Number of checks
				From Student Evaluation Form (1968):
13	252	2.4365	.5853	Q.1 - Apply himself to school work
14	250	2.4720	.5819	Q.2 - How well he does school work
15	249	2.1687	.4706	Q.3 - How well he gets along with other children
16	251	2.3227	.5616	Q.4 - Emotional maturity
17	252	2.2143	.5590	Q.5 - Favorable attitude toward school
18	251	2.2191	.4938	Q.6 - How well teacher understands his speech
19	252	2,4008	.6328	Q.7 - How well he reads
20	241	1.9253	.7149	Q.8 - Home environment effect on school performance
21	246	2.0284	.3051	Q.9 - Hea'th
22	247	2.0405	.4580	Q.10 - How well he cooperates with teachers
23	246	3.1463	1.0276	Q.11 - Defiant-submissive
24	244	3.3852	1.1825;	Q.12 - Uncooperative-cooperative
25	249	2.3815	1.0564	Q.13 - Friendly-hostile
26	242	2.8636	1.0436	Q.14 - Shy-aggressive
27	245	2.9878	1.1890	Q.15 - Irresponsible-responsible
28	247	2.6599	1.2155	Q.16 - Neat-unkempt
29	248	2.7500	1.0770	▼ ·
30	239	3.1632	1.0898	Q.18 - Alert-dull
31	231	10.7879	12.7314	Q.19 - Days absent, total
32	134	7.0373	13.6681	Q.20 - Days absent, unexcused
33	242	3.719	18.962	Q.21 - % in Special Academic class
34	232	3.879	19.352	Q.22 - % in Social Adjustment class
35	252	38.492	48.754	Sex (1 = boys; 2 = girls)

				design designs. Department of
Vari-				
able				
No.	N	Mean	S.D.	Variab a Description*
				From Pupil Personnel Team Evaluation Form (1968):
36	250	2.1280	.5594	Q.1 - Attitude toward school
37	249	1.9839	•5534	Q.2 - How well does PPW understand his speech
38	247	2.4494	.5301	Q.3 - Trouble fighting
39	245	2.8816	.3361	
40	244	2.7582	.4385	Q.5 - Trouble with neighbors
41	246	2.7073	.4735	
42	241	2.5809	.9144	Q.7 - How many personal books
43	236	2.3686	.8275	Q.8 - How much education desired by parents for him
44	247	2.0324	.3592	
45	241	2.0332	•5153	Q.11 - How is his home inside
46	244	1.9262	.5762	Q.12 - Does student have adequate place to study
47	245	2.1388	.5172	Q.13 - Is home environment conducive to school work
4 8	250	3.7680	1.0424	
49	250	2.1240	.9382	
50	248	3.1169	.8335	
51	245	3.1469	.9597	•
52	250	2.4360	.9969	•
5 3	249	2.7630	.9311	Q.19 - Alert-dull
54	234	4.0513	4.2806	Q.21 - Number of contacts with student by PPW
55	252	11.508	31.975	Q.23B - % with physical (medical) problems
56	252	55.556	49.789	Q.23C - % with slow learning problems
57	252	17.857	38.376	Q.23D - % with attendance problems
58	252	8.333	27.694	Q.23E - % with emotional problems
59	252	28.175	45.075	Q.23F - % with behavioral (adjustment) problems
60	252	18.254	38.706	Q.23G - % with poor motivation problems
61	252	27.778	44.879	Q.23H - % with other problems
62	252	2.381	15.276	Q.24A - % referred to Clinical Teams
63	252	16.270	36.982	Q.24B - % referred to Reading Clinic
64	252	6.349	24.433	Q.24C - % referred to Speech and Hearing Clinic
65		18.651	39.029	Q.24D - % referred to Urban Service Corps
66	252		25.805	Q-24E - % referred to other sources
67	252	4.2421	2.0688	Grade level
68	243	4.527	20.832	Q.20A - % referred by Principal, Asst. Principal
69	243	10.288	30.443	Q.20B - % referred by Guidance Counselor Q.20C - % referred by Teacher
70	243	37.037	48.390	Q.20D - % referred by School nurse
71	243	2.469	15.550	Q.20E - % referred by other school source
72 72	243	16.049	36.782	
73	243	.823	9.053	· · · · · · · · · · · · · · · · · · ·
74 75	243		45.380	* * * * * * * * * * * * * * * * * * *
75	219	1.7352	1.7902	A. 55 - Homingt of confects with barones al

^{*}For exact wording of item, see the form (Appendix B to this report).

TABLE A-2

Correlations Among Variables Obtained from Identified Student Forms, Student Evaluation Forms, and Pupil Personnel Team Evaluation Forms- 1968*

Vari-	•		•												
able	1	2	3	. 4	5	6	7	8	.9	10	: 11	12	· 13	14	15
											1 1				
1		109	261	**		-	-032				-179		213	231	090
2	109		138	212		•	-108		056		022	401	142	079	-040
3	261	138		567		•	-083			-010	•	479	289	355	122
4	**	212	567	4.4.	**	•	-071	086	077		071	647	243	283	130
	132	060	179	**		**	-031	096	072	060	-125	467	268	255	146
6	**	116	143	192	**		146	-048	058	-068	001	497	150	167	064
7	-032	-108	-083	-071	-031	146		032			-063	205	066	030	029
8	-173	043	-050	086		-048				-072	_	094	068	006	090
9	-044	056	003	077		058					134	228	032	065	020
10	229	071	-010	076	060	-068	004	-072	-134		-116	311	062	028	198
11	-179	022	-062	071	-125	001	-063	007	134	-116	•	298	-081	-051	-050
12	501	401	479	647	467	497	205	094	228	311	298		300	320	144
13	213	142	289	243	268	150	066	068	. 032	062	-081	30£.	•	790	380
14	231	079	355	283	255	_	030	006	065		-051	32C	790		287
15	090	-040	122	130	146	064	029	090	020	198	-050	144	380	287	
16	111	021	127	150	171	084	002	-016	067	165	-058	185	497	442	545
17	157	-027	086	108		128	164	065	019		-093	172	614	523	469
18	304	226	186	198	186	052	116	800	108	-007	015	292	469	432	254
19	295	080	292	247	187	021	103	020	093	017	-072	269	623	754	236
20	137	800	211	222	284	152	191	105	095	-008	010	303	483	411	250
21	128	004	106	126	-171	067	069	-012	123	-084	126	133	114	179	196
	-015		010	-132	163			-011		-009	_	048	315	266	431
23	132	080	-026		-189	_		-018		-220	- .			-114	-453
24	046	-038	-056	022	-146	059	-054	-097	-009	-239	062	-134	-336	-279	-472
25	-106	-079	036	066	159	-082	122	045	005	130	-023	047	223	160	454
26	-218	025	-065	_136	162	_023	068	017	_110	250	_130	_034	-006	_101	308
27					-247			•			-				
28	003		-015		-004		_		-002		204		230	176	260
29		-041				042		**	-028		•		-269		016
30	456	141	302	272		066	063	010		-006	•	330	576	610	236
31	152	-066	078	043	236	009	281	013	027	-005	_035	140	234	237	097
32		-065			118	•	291		-117		-086		259	210	141
33						-120			020		-010	045	002	-009	
34	112	049	184	206		204				-007	•	237	083	072	068
35					-104	•				-187	,	_	-270		
36	104	076	-032	_012	252	00%	271	085			029		186	193	131
30 37	081	202	026		-079				064 142	016	•		108	149	055
38	-033				-081					-291	•				
39	168		-002		040	•				-167	•				
40	036				005					-185					
_					·				_	:	•		=	-	

^{*} See Table 1 for description of variables, and for the N of each variable. ** No data, as variables come from different forms.

Decimals have been omitted.



Vari-												_		- •	
able	1	2	3	4	5 :	6	7	8	9	10 :	11	12	13	14	15
41	_160	- 126	038	-061	-190	190	- 108	012	-111	-043	-075	-177	-142	-105	-074
42	120	_	-069	073	160:	150	152		126	002		228	149	188	075
43		-098	034		-054			-059		033	-142	-100	-099	-099	-048
44	-050	-003	-036	-097	-152	-082	054	-012	-027	-026	095	-047	164	102	111
45	113	048	-059	-020	019	027	169	-008	039	-056	182	106	116	072	010
46	119	092	045	122	069	008	095	-040	038	- 02 5	23 5	177	229	165	138
47	044	006	-054	074			099		035	028		127	189	160	085
48	-146	-041	027		-116					-160				-168	-093
49	392	026	046		-037								128	114	061
5 0	- 158	076	120	-063	-005	-037	- 154	-056	-132	206:	-133	-056	003	023	026
51	-199	-060	-000	-052	-019	-037	-066	-017	022	- 106	-066	-166	-176	-137	-091
52	294	037	033	142	096		111	072	041	079	169	272	168	126	019
53	301	059	138	147	088	104	086	033	057	012:	128	298	248	271	150
54	035	001	103	-022	029:	-071	-032	-032	025	161	-061	048	041	055	176
55	-006	258	-022	026	-008	116	014	-046	492	-090	132	191	092	071	003
56	274	166	350	323	157	035	-049	-078	115	-045	-018	255	190	241	064
57	-002	-124	-083	-062	003:	023	648	107	-022	070	-068	141	060	058	0 5 8
58	021	049	019	102	006	100	026	-038	124	094	-084	115	070	052	090
59	-067	-041	-010	012	060:	-013	042	-009	-086	564	026	188	106	084	255
60	203	114	094	073	017	-087	104	-060	089	040	088	166	104	103	-039
61	-052	-012	-056	105	-050:	-035	-027	134	047	-046	194	065	-024	007	042
62	118	014	122	122	147	060	075	-020	050	213	009	209	062	098	111
63	056	141	298	197	-071	070	-015	030	-050	-002	078	192	204	217	094
64	138	516	193	266	012	038	-024	097	-076	_		298		097	
65	-040	-100	-080	-077	137	-034	015	102	-028	034	037	015	-079	-013	-032
66	880	026	-124	-039	-147	-007	-078	-035	033	-051	139	-049	-049	-013	065
67	-101	-153	266	-081	058	-180	012	-122	-162	-107	- 192	-182	-009	-001	-079
68	002	-086	-115	-074	-073	080	067	-028		-037					003
69	-030	024	-030	- 107	237	-088		063		-105					024
70	101	-055	051	-042	094	235	106	-032	-033	079	030	173	105	090	-007
71	-150	-063	-036	097	180	-006	-070	-021	151	-093	010	-017	-073	-086	-060
72			-075							027					004
73	- 105			-074			-040			-053				004	-132
74	064				-098					024	-124	-039	059	073	034
75	008	024	091	117	015	-060	-026	020	056	099	-009	078	125	150	183

Vari-															
able	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	•						0.5	•••	011		0.10	010	000	000	156
1	111	157	304	295	•								003		456 141
2		-027	226	080	008		-140						038 -015		
3	127	086 108	186 198	292 247									089		
4 5	150 171	226	186	187									-004		277
		220	••••	• • • • • • •	3			• • • • • •	• • • • • • •	• • • • • • •		• • • • • •		• • • • • • • •	• • • • • •
6	084	128	052	02 1									-155		066
7	002	164	116										132		
8	-016	065	800	020				-018			017			**	
9	067	019	108	093									-002		
10	165	045	-007	017	-008	-084	-009	-220	-239	130	250	-139	003	107	-006
11	-058	-093	015	-072	010	126	041	049	062	-023	-139	044	204	-034	-048
12	185	172	292	269	303	133	048	-024	-134	047	-034	-238	141	-092	330
13	497	614	469	623	483	114	315	- 192	-336	223	-006	-503		-269	576
14	442	523	432	754	411	179	266	-114	-279					-288	610
15	545	469	254	236	250	196	431	-453	-472	454	308	-393	260	016	236
16		471	326	346	323	113	451	-244	-398	379	149	-483	179	- 147	380
17	471	7/1	412	511	•			-324			097			-088	390
18	326	412	7	446	•			017			-139			-305	524
19	346	511	446			216		-050						-321	600
20	323	423	364					-116					330		419
												116		- 193	100
21	113	206	315		145 331									019	
22	451	512	161		-116										
23	-244 -398		017	-020	270	003	-204 531	676	0/0	- 5/2	_/.58	668	-239	-124	
25	379	-413 26%	121	1/2	204	-003	-331	-520	-6/2	- 042	350	-494	297		056
	149														
27		_			-453										
28	179	291	270	160	-	083		-239				•	000	-029	233
29	-147				-084								-029	402	-493
30	380	390	524	600	419	188	130	095	-136	020	-248	-419	233	-493	•••••
31	147	288	146	170	391	241	182	-042	-079	092	-033	-240	213	-048	150
32	198	387	025	089	376	045	279	-229						052	043
33	-035	-074	045	-022	-011	-090	-065	057	116	-070	045	113	-089	047	-031
34		-031				•	031				-013		- 108		136
35 `	-121	-172	-100	-231	-082	008	-052	180	148	- 154	-106	150	073	031	-142
36	188	183	159	287	180	075	154	-096	-163	138	071	-287	150	-099	258
37		-002	161			•			-092		-048			-122	268
38					-134	-	027	166					-053		
39					-129						-022			-078	
40					-087						- 102			-091	040
	450						- • •				•				



Vari-									•		0.6	07	20	20	30
able	16	17	18	19	20 :	21	22	23	24	25	26	27	28	29	30
41	-07/	_161	-159	_140	-100	-054	-120	090	134	-151	066	146	- 157	140	-206
42	087	145	180	225		114	041			-042		-206	100	-189	278
43	-074						-002	-079	002	002	058	087	- 184	084	-164
44	088	149	121	140	141		070	-124	-191	•	-038		194		156
45	033	092	136	164	•	159	067	009	-034	033	-059	- 158	224	-050	207
46	164	175	186	226	291	156	076	-074	-028	048	-072	- 198		-089	284
47	122	155	235	255			-007	-053	-040		-051			~ 05a	213
48			-164	-218	-140	-081	-141	069		-158				061	-154
49	047	071	065	139	056	118	944				-028		057	-149	203
5 0	056	031	-003	-027	-091	-206	-057	-169	-049	067	200	-002	-102	170	-123
51	-186	-093	-133	-142	-170	030	-055	118	154	- 167	-022	217	-183		-159
52	054	051	152	142	138	133	012	034	-002	003	-099	-118		-062	235
53	198	179	221	270	193			-005	-096		-049			-178	312
54	142		-056	036	031	-040	119	-238	-169	_	205		009	224	022
55		-005	118	086	002	057	058	077	-034	-016	- 105	-018	133	036	056
56	088	-086	103	226	210	056	-028	-023	-073	015	-012	- 148	040	-123	295
57	064	174	003	065	172	•			- 105	152		-130	113	039	030
58	185	167	128	104	_	019			- 137	206	082	- 132	014	055	084
59	206	155	-060	105		: -058			-341	197	267	-210	106	069	-015
60	058	076	166	074				-056	-021	-022	030	-085	200	030	098
61	-025	-127	012	-043	-062	002	-035	167	146	-088	- 123	068	-049	-021	050
62	096	127	036	107	091			-077	-072	057	047	-072	- 102	007	086
63	072	062	197	180			-014				-050	- 124	062	-020	149
64		-042		092			-175				-002	-069	101		136
65	-016	054		067			-020				**	-058	054	007	010
66		-105	033	 044	-081		-059	082	067	023	-054	016	-011		-027
67	-134	-117	-132	-099	009	-095	- 105			-009	161	_	-074	_	-112
68			-018			: 042	023	-109	-071	128	062	-080			
69	029		-072			-038		-114	-109		036				-012
70	040		143			: 088	3 042	051	042	- 125	-099	-081	005	-153	120
 71	_1/.1	-060	_ 127	_103	014	-018	3 -014	031	003	-008	017	072			-100
71 72	_ 1012	_166	-127	-140	201	064	-088	051			004				-100
72 73		-035		013	-056	-010	-008			-034	-079			-066	
74		-028			040	- 132	2 -016				: 059		-080		-028
75	206				104	-037	7 138	3 - 132	2 -130	165	: 092	- 124	108	026	110
• •			•												



Vari-		•		٠,											
able	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
•	150	202	100	110	116	106	001	-033	168	036	– 169	120	102	-050	- 113
1	152	292	-014		-114	104 076		-032	032	•	– 109		-098		048
2 3			135			-032				-073	•			-036	-059
ے 4			-050							-033	•			-097	-020
5	236		095			•	-079				-190		-054		019
		• • • • • • •	• • • • • •	••••						- • • • • • •		• • • • • •	• • • • • •		
6	009		-120			,				-176			. 095		027
7		•.	-023		014	, –				-015			830-	054	169
8			-026							-150				-012	-008
9		-117			160					078	•		-059		039
10	-005	112	097	-007	-187	120	016	-291	-16/	- 185	-043	002		-026	-056
11	-035	-086	-010	033	003	029	071	020	061	062	-075	136	-142	095	182
12	140	120	045	237	-143	242	119	-210	-051	-118	- 177	228	-100	-047	106
13	234	259	002	083	-270	186	108	-160	-077	-094	- 142	149	-099	164	116
14	237	2 10	-009	072	-266	193		•		-124			-099	102	072
15	097	141	-070	068	-059	131	055	-142	-078	-074	-074	075	-048	111	010
16	147	198	-035	084	-121	188	095	-179	-035	036	-074	087	-074	088	033
17	288		-074							-070			-057	149	092
18	146		045				161	-086	076	-016	- 159	180	-037	121	136
19	170	089	-022	053	-231	287	191	-147	-168	-167	- 140	225	-121	140	164
20	391	376	-011	122	-082	180	062	-134	-129	-087	- 100	207	-164	141	187
21	241	045	-090	-024	വെള	075	123	111	025	100	-054	114	-045	148	159
22	182		-065		-052		003	027	056		- 120			070	067
23		-229		036		-096	057	166		158	-		-079		009
24		-198				•	-092	-			-			-191	-034
25	092									-085	•			068	033
	• • • • • • •	• • • • • • •							• • • • • •			• • • • • • •			• • • • • •
26	-033	117												-038	
27		-319												-175	224
28 29	213 -048									008				-012	
30	150									040					207
J	130	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •		• • • • • •	;					
31			-010			<i>*</i>				061					172
32										016	•				069
33										-054					-103
34														-012	
35	018	-088	-110	-021	,,,,,,,	-065	-007	217	131	192	-034	-070	-016	-072	-01
36	172	238	031	112	-065		371	-168	-147	-161	-263	377	-266	160	332
37	117	012	082	084	-007	371		002	-036	-029				105	060
38	034	012	-027	-132	217	- 168	002		306	438					005
39	-019										•			-120	-11.1
40														-069	
					•					•					



Vari-								20	20	40 .	41	42	43	44	45
able	31	3 2	33	34	35	36	37	38	39	40 :	41	42	43	4-	73
		0.4	000	001	-034	262	200	037	0/.8	-028		-146	072	-091	-058
41	-168				-070			-100	-109	-120	-146	- 1-40	-326	115	214
42	056	112	-061	117	-016	-266	_ 182	-026	041	-046	072	-326		-178	
43	-138				-072		105	019	-120	-069:	-091	115	- 178		596
44 45	168 172				-018				-111				-328	596	
	1/2		-103			• • • • • •	• • • • • •	• • • • • •	• • • • • • •	•••••	• • • • • •		• • • • • • •	 E C O	606
46	197	142	022		-147				-141				-251	568	686
47	175	116	- 101	-003	-084	306			-113						638
48	-069				137			216	-065	164:	098	-31/		-120	-116
49	097	074	018		-087				058				-246	13?	146
50	- 109	- 103	079	-153	-251	- 109	-201	-240	-114	- 190	239	- 140	100	-096	- 130
51	-096	-117	-097	-180	111	-457	-211	163	053	208	182	-289	194	-210	-283
52	162	162	065	087	018	325			-120				-305	190	461
53	140	070	070		-002				-014				-367	084	201
54	046	005	053	068	-147	054	071	-126	- 153	-006	-110	-074	071	115	008
55	-077	-075	-070	063	072	051	079	131	046	105	-022	010	-075	-032	050
56	039	-041	038	178	-146	176	266	-110	-098	-110	-038	176	-210	104	138
57	274	258			-071	•			-215				- 144		155
· 58		-016			-062		-					067	019	053	094
59	054	244	025		- 187							-041	046	119	050
60	163	151	021		-057				-075				-056	133	204
									- 189	051		001	-095	043	012
61		-115			-017 -070								-101	059	042
62	295		-028	-030	-150	101	072	-124	-146	-160	-007		- 120	116	081
63	086		-027 -050		-072	_			-005				-202		
64 65					-044						•		-077	129	133
	-010	-020													
66	-101			-058					-040				-128		
67	107	074	-003	067	-022	-146	-176	080	-006	037	228	-33/	065		-053
68				075	-008	056	041	-032	012	035	-034	013	-003	199	066
69	022		-066		012								- 141		001
70	-042	-030	078	-097	-078	088	-030	-089	-018	-198	067	072	1/8	003	168
71	-028	-051	-033	-032	-071	-132	-093	018	-936	084	090	045	005		
72				-085			010	114	-013	124	050	-072			
73	-024	-046	-019	-013	116	061	085	-054				-115		-008	
74	079	077	020	137	-052	-016	-019	-033	005	033	-044	-039	-048	-009	-121
75	139	096	174	160	-130	062	054	-212	-036	-015	-093	800	-031	-006	-0 5 2



Vari-														•	
able	46	47	48	49	5 0	51	52	5 3	54	55	56	57	58	59	60
												•	•		
1	119	044	- 146	392	-158	-199	294	301	035	-006	274	-002	021	-067	203
2	092	006	-041	026	076	- 060	037	059	001	258	166	-124	049	-041	114
3	045	-054	027	046	120	-000	033	138	103	-022	350	-083	019	-010	094
4	122	074	-061	036	-063	-052	142	147	-022	026	•	-062	102	012	073
5	069	132	-116	-037	-005	-019	096	088	02 9	-008	157	003	006	060	017
6	008	045	- 154	085	-037	-037	064	104	-071	116	035	023	100	-013	-087
7	095		- 158			-066			-032		-049		026	042	104
8	-040	-035				-017	072		-032		•		-038	-009	
9	038	035	006	-054	-132	022	041				115			-086	089
10	-025	028	- 160	104	206	- 106	079	012	161	-090	-045	070	094	5 64	040
11	235	188	024	022	122	-066	169	128	-061	122	-018	-068	-084	026	088
12	177		-205			- 166	272		_		255	141	115	188	166
13	229		-156	128		-176	168			092		060	070	106	104
14	165		-168	114	•	-137	126		055	071		058	052	084	103
15	138		-093	061	,	-091	019		176	003	_	058	090	255	
															• • • • • • •
16	164		-161	047		- 186	054			-008		064	185	206	058
17	175		-217	071		-093	051	179		-005		174	167	155	076
18	186		- 164			-133	152		-056		103	003	128	-060	166
19	226		-218		•	- 142	142		036		226	065	104	105	074
20	291	188	- 140	050	-091	- 170	188	193	031	002	210	172	138	066	170
21	156	086	-081	118	-206	030	133	143	-040	057	056	025	019	-058	026
22	076	-007			-	-055	012	142	119	058	-028	096	132	182	-041
23		-053	069	-026	-169	113	034	-005	-238	077	-023	-098	-072	-354	-056
24		-040			-049				-169	-034			-137	-341	-021
25	048	063	- 158	052	067	- 167	003	044	187	-016	015	152	206	197	-022
26	-072	-051	-048	-028	200	-022	-029	-049	205	- 105	-012	123	082	267	030
27		-173								-018					
28	228	222			-	-183				-	040	113	014	106	200
29	-089				•	076			224	036	-123	039	055	069	030
30	284	213	- 154	203	-123	-159	235	312	022	056	295	030	084	-015	098
31	197	175	-060	007	 	-096	162	140	046	-077	030	274	089	054	163
32	142	116			•	-117		070		-075			-016	244	151
33		-101			•	-097	065	070	053	-070		021	100	025	021
34		-003	•			-180		225	068	•	178		109	126	080
35		-084							-147				-062		
	• • • • • • •				.									• • • • • •	
36 37	346	306			•	-457	325	462	054	-	176		086	144	242
37	205		- 156		•	-211	169	366	071	•			-017		051
38 30		-137						002		•			-084		
39 40						053				•			061		
40	-0/4	- 130	104	-103	-140	208	-083	-024	-000	102	-110	-026	063	-430	017

Vari-								co	-,	EE .	EG	5 7	58	59	60
able	46	47	48	49	50 ;	51	52	53	54	55 <u>:</u>	5ა	31	Jo	79	00
			000	470	220	102	120	230	110	-022	_038	_115	035	009	-130
41				-1/8	239	102	-120 283	330	-07/	010	176	182		-041	086
42	307		-317	204	-140:	10/	-305	-367	071	-075	-210		019		-056
43	-251		-120	122	006	-210	190	084	115	-032	104	074	053	119	133
44	568 686		-116	146			461	201	008	_		155	094	050	204
45	000												090	143	263
46							384			_		079 056	059	116	260
47	645			199	-103	-286	352	171	069	024	127 -062				
48	-			-640	035	558	-308	-372					-040	079	085
49	164		-640		-111	-515	440	485	-100	-019	102			185	
50	-102	-10 3			•		-212								
51	-339	-286	558	-515	137		-514	-558	004	-040	-181	-094	-186	-125	-104
52	384	352	-308	440	-212	-514		494	-083	145	128	140	-031	022	150
5 3	235		-372				494		004	075:	212	086	031	013	164
- 54	091	069	066	-106	172		-083					070	232	219	160
55	025	024	003	-019	-127	-040	145	075	-082		072	-038	-019	-115	087
56	173	127	-062	102	_088	_181	128	212	067	072		-021	038	-043	071
57	079		-146		-079			086			-021		009	030	075
58	090						-031	031		_	038			098	043
59	143		-144					013	219	-115	-043	030	098		024
60	263		-048		-014			164			071	075	043	024	
		• • • • • •	•••••	• • • • • •	• • • • • • •	• • • • • •	• • • • • • •	025	1/1	002	038	035	_155	-152	-155
61	097		105					025 096			-018			192	128
62	066		-166							043	•			011	
63	134	073		-022		050 -004				263	•	-079			
64	005		-198	038		•		-012			•	123			
65		110	-130	-020										•••••	• • • • • •
66	-021	-011		-004	054	104	-013	038	098	093	-				-131 134
67	-105	-086	282	-174	103	217	-230	-149	178	-15/	062			008	-002
68	060	·148	-068	-050	-122	-096	-115	-094	115	-014	034	1003	200	102	
69	014	-090	-084	115	-057	-095	029	102	01/	-034	-02/	1 20	-UJU	163	-015
70	100	158	-106	090			220								
71	-029	010	-043	007	013	117	-016	-131	024	112	034	-004	-049	-102	-008
72	-091	-094	160	-046	082	: 134	000	015	194	-048	004	-144	-095	-182	-064
73	007	109	076	-078	-008	: 058	-028	-053	-033	113	-011	-042	-028	042	0/4
74	-060	-114	075	-104	045	: 059	-192	-095	-140	093	: 070	-009	-000	-009	-022
75			-058	042	093	-072	002	. 125	571	-070	: 105	-018	146	189	101
						-									

Vari-							4-		40			70	70	7,	76
able	61	62	63	64	65 ;	66	67	6 8	69	70	71	72	73	. 74	75
•		_			;				000			074	• • •	061	000
1	-052	118	056				-101		-030		-150			064	008
2	-012	014	141		•					-055			097	119	024
3	-056	122	298		•	-124				051			010	089	091
4	105	122	. 197							-042			-074	040	117
5	-050	147	-071	012	137	-147	058	-073	237	094	180	-273	126	-098	015
6	-035	060	070	038	-034	-007	- 180	080	-088	23 5	-006	-102	-049	-135	-060
7	-027	075	-015			-078	012	067	073					-031	
8		-020	030	097			-122			-032	-021	032	-012	-011	020
9.	047	050					-162			-033			143	018	056
10	-046	213		040			-107				-093		-053	024	099
. • • •	• • • • • • •			• • • • • •		· • • • • •	• • • • • •	• • • • • •	• • • • • •			061	007	-124	000
11	194	009	078	047			-192				010				078
12	065	209	192	298			-182				-017		_	-039 059	125
13	-024	062	204				-009				-073		011	073	150
14	007	098	217		-		-001				-086		004		183
15	042	111	094	-024	-032	065	-079	003	024	-007	-000		-132	034	103
16	-025	096	072	-005	-016	030	-134	-021	029	040	-141	.,005	-054	√ 0 00	205
17	-127	127	062		_		-117			.156	-060	. - 166	-035	-028	106
18	012	036	197	182			-132			143	-127	-085	052	007	059
19	-043	107	180	092			-099				-103	-140	013	050	082
20	-062	091	171	028			009				014	-201	-056	040	104
												06/		-132	-037
21	002	072					-095		-038		-018			-016	138
22	-035	101				-059			058		•	051		-005	
23			-041			,	•		-114		031	094	049		-130
24			-086					-0/1	- 103		003		-034	017	165
25	-088	057	024	- 124	030	023	-009	128	089	-125	-008	010	-034		103
26	- 123	047	-050	-002	**	-054	161	062	036	-099	017	004	-079		092
27	068	072	- 124	-069	-058	016				-081					-124
28	-049	-102	062	101	054	-011	-074	116	076	005	003	-044	027	-080	108
29	-021	007		-061			142	050	103	-153	: 188	-016	-066	033	026
30	050					-027	-112	027	-012	120	-100	-100	072	-028	110
			006				107	085	022	-042		_001	-024	079	139
31	025					-127				-030					096
32	-115	237				_				078					174
33			-027							-097					160
34	0/4	-030	100	122	-092	-036	067	0/3	020	:079	-071	163	116		
35	-017	-0/0	- 120	-0/2	-044	. 000	-022	000				• • • • • • •	• • • • • • •	-052	
36	-013	151	-005	-001	055	:-008	- 146	056		088	•			-016	
37	083						-176			-030				-019	
38			- 124	-099	-061	-091	080	-032						-033	
39			- 146			-		012		-018					-036
40			-160						040	-198	084	124	037	033	-015
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Vari-	61	60	63	64	65	66	67	68	69	7 0 :	71	72	73	74	75
able	61	62	03	04	05	00	•								
41	-098	-181	-007	-081	-071	042	228	-034	-108	067	090			-044	
42	091	067	022	-078	169:	079	-337	013	022	072				-039	
43	-095	-101	-120	-202	-077	-128	065	-003	-141	178	005	-075	130	-048	-031
44	043	059	116	-024	129	-059	050	199	-032	•	-015	-072	-008	-009	-006
45	012	042	081	-017	133	-018	-053	066	001	168	-012	-100	-005	-121	-052
46	097	066	134	005	062	-021	-105	060	014		-029			-060	120
47	040	060	078	-039	110	-011	-086	148	-090	158	010	-094		-114	075
48	105	-166	096	024	-198	018	282	-068	-084	-106	-043	160	076	075	
49	-083	202	-022	038	-020	-004	-174	-050	115	090	007	-046	-0/8	-104	042 093
5 0	073	-022	086								013		-008		
51		-052	050	-004	_161	104	217	-096	-095	-098	117	134	058	059	-072
5 2	022	115	056	076	057	-013	-230	-115	029	220	-016	000	-028	-192	002
52 53	025	096	015	046	-012	038	- 149	-094	102		-131			-095	125
54	141	017	030	വര	056	คอด	178	115	017	-082	024	194	-033	-140	571
55			043	263	-141	093	-157	-014	-034	-081	112	-048	113	093	-070
 56	038	_018	221	135	018	062	062	034	-027	-075	034	004	-011	070	105
57	035		-009		1	-129		003	198	002	-004	-144	-042	-009	-018
58	-155		-133				-098	285	-056	067	-049	-095	-028	-066	146
59	-152	192		018	040	-037	008	165	-009	163	-102	-182	042	-069	189
60	-155			046	-042	-131	134	-002	118	-015	-008	-064	074	-022	101
	• • • • • •	019	• • • • • • •	056		•					078				175
61 62	019		007	066	059	-043	-081	-035	208	-067	-025	-070	-014	016	025
63	019			370	037	: _080	162	-098	-044	-118	-072	-077	081	272	
64	056		370		-083	-072	-046	-056	026	-161	-041	-066	-023	252	-086
65	090		037	-083	•••	-093	-184	151	118	073	061	-064	-043	-186	019
			-080												
66	2/5	-043	160	0/6	184	: :_100	-100	-002	104	-132	-007	-065	-011	148	-069
67	-19/	-001	102	-040	151	-100	_046	-040	-074	-167	-035	-095	-020	-138	016
68	~~~	000	01.1.	026	110	. 004	1 1 1 / 1		1	260	: =054	-140	-U3 I	-213	-012
69 70	1030	_067		-161	. 073	011	-132	-167	260		:-122	-335	-070	-488	-033
70	- 173		-110	-101						122	: · · · · · ·	_070	_01/	_101	-024
71	078	-025	-072	-041	061	:-045	-007	-035	-UJ4 : 170	-166	:_070	-0/0	_040	278	-024 178
72	177	-070	-077	-066	-064	262	-065	-U93) -148 \ ^21	-333 070_	: -0/U : _01/	_በፈበ	-070	_058	178
73	-057	-014	081	-023	-043	-026) -UII	, -UZU) =UJL	-U/U ΩΩ_ :	_101	_278	-058	}	-029 -077
74	089	016	272	252	-186	-110) 140) -130	-413 -413		: _024	178	-029	-077	,
75	. 75	025	-019	-086	019	063	-009	, 016	– 032	. =053	, -024	. 170	, - U		



TABLE A-3

Factor Loadings for Four Factors Obtained by Varlmax Factor Rotation, and Corresponding Communalities,

for 75 Variables from Identified Student Forms, Student Evaluation Forms, and Pupil Personnel Team Evaluation Forms - 1968*

Variable	Factor I	Factor II	Factor III	Factor IV	Communalities
1	.2511	0881	.4385	.1199	.27746
2	.0497	.0685	.4334	.0074	.19510
3	1352	1230	.6504	0469	.45868
4	-0154	0409	.6174	0091	.38314
5	.0529	2944	.2164	1042	.14716
. 6	.0819	.0064	.2804	0733	.09071
7	.2768	2160	1587	.0176	.14876
8 .	.0472	0511	.0002	0510	.00744
9	.0729	0509	.1158	.2565	.08710
10	.0592	0610	.1485	5729	.35747
11	.2580	.1127	0168	.1349	.09777
12	.2775	 1356	.6756	1289	.56837
13	.1065	- 6368	.4783	.0725	.65090
14	.0948	5622	•5514	.1043	.63997
15	0095	6090	.0966	1981	.41960
16	.0452	6202	.2156	0805	.43972
17	.0853	7674	.1210	.0195	.61115
18	.1739	4205	.4089	.2560	.43977
19	.2087	4878	•4883	.1295	.53672
20	.2144	5623	.2357	.0676	.42226
21	.1758	2074	.0846	.3578	.20914
22	.0020	6760	1379	.0082	.47609
23	.0796	•5233	.1796	• 5463	.61086
24	.0136	.7016	•0567	.3556	.62205
25	0166	6283	1512	- ,2927	•50356
26	1496	2804	2435	5896	.50796
27	1782	.7574	1152	.1078	.63029
28	.2427	4814	0871	.0704	.30317
29	1776	.0427	3231	4544	.34424
30	.2776	4133	.5405	.2984	.62911
31	.2268	4226	0362	.1436	.25194
32	.1699	5023	1342	0297	.30003
33	.0285	.1551	.1646	1706	.08109
34	.1096	.1000	.3566	1397	.16866
35	0280	.1410	2748	.3465	.21623

^{*} For N and description of each variable, see Table A-1.



Variable	Factor I	Factor II	Factor III	Factor IV	Communalities
36	.6079	2042	.0712	1325	.43391
37	.3792	0568	.1409	.1019	.17725
38	1213	.0550	2797	.5624	.41224
39	1419	0305	0934	.2990	.11918
40	1772	0346	1702	.4890	.30068
	•••	,	_	-	·
41	2928	.2109	0291	1168	.14471
42	.5426	0630	.1276	.0531	.31753
43	4651	.0258	0464	1159	.23259
44	.4543	1869	1633	.0063	.26798
45	.6507	0922	1032	.0699	.44745
46	.6356	1596	.0598	.0015	.43302
47	.6259	1312	0112	0179	.40945
48	5363	.1161	0853	.2218	.35763
49	.5610	.0096	.1353	1060	.34439
50	3218	.0313	.1177	4426	.31433
_			.=		
51	6625	.0698	0750	.2237	.49939
52	.6833	.0131	.1353	.0104	.48545
53	.5859	1231	.2479	.0540	.42282
54	0439	1704	0036	3627	.16260
55	.0543	0093	.1539	.2542	.09133
5.6	1002	0200	4420	0211	.23316
56 57	.1893	0280 2163	.4428 1842	1030	.16570
58	.2727 .0915	1851	.0079	1462	.06407
59	.0913	1031 217 5	.0204	6122	.43216
60	.2595	0982	.0781	0122	.08328
00	.2393	0702	•0/01	0149	.00320
61	.0453	.1427	.1039	.0729	.03853
62	.1751	1316	.0848	1297	.07200
63	0295	0831	.3986	0260	.16731
64	0270	.0696	.4573	0021	.21471
65	.2326	0103	1293	1130	.08371
	•====	V 3233	V	V	·
66	.0086	.1036	.0341	.0486	.01434
67	3386	0416	0677	0761	.12674
68	.1178	1094	- 2337	0707	.08542
69	.0969	0995	1539	0172	.04328
70	.2158	0008	.0858	0525	.05668
	-				
71	0523	.0691	0713	0013	.01260
7 2	1216	.1510	0647	.0718	.04694
7 3	0227	.0301	.0331	.1217	.01734
74	2299	0341	.1909	.0196	.09086
75	.0349	1739	.1221	2606	.11430

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Student Identification Number

TITLE I SCHOOLS

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	n and Grade
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DRO	rten
G POTENTIAL SCHOOL DROPOUTS	en Kindergarten a
IAL	in M
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IFYING	in grades
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2	y School
ENT	Sc
INSTRUMENT FOR IDENTIFYING	rimer
	tn Pi
	(Pupils

Name of Pupil	Pupil Birthdate Sex	1
Name of	School Grade	i
Parents Name	Name Home Address	
Home Pho	Home Phone Number	l
The iter high school. to this stud	The items below are to be used for screening those students who might leave school before completing high school. These factors are merely general indicators. Please check all those which are applicable to this student.	
-	Poor risk readiness test status.	
2.	Speech and language problems as determined by Speech Correctionist or Hearing Therapist.	
3.	Severe reading problems as determined by Reading Specialist.	
4.	Grade retention.	
5.	Absenteeism of an excessive nature, 20 days or more in the last school year.	
9	Two or more school transfers for any reason during the last school year.	
7.	Evidence of health problems as determined by the school health team.	
œ	Evidence of behavior problems and active referral to Department of Pupil Personnel Services.	
6	Evidence of economic need (such as free lunch, clothing and aid from P.T.A. or other groups).	
10.	· Comments:	

30

19/6

ERIC

Student Identification Number

TITLE I SCHOOLS

DROPOUTS	
POTENTIAL SCHOOL	6 4 Through 11)
INSTRUMENT FOR IDENTIFYING POTENTIAL SCHOOL DROPOUTS	(Students in Grades 4 Through 11)
INSTRUMENT I	(St

	Sex Sex
	Grade
	Rome Address
The Items b	ow are to be used for screening those students who might leave school before compl
high school. The	school. These factors are merely general indicators. Please check those which are applicable to student.
	Severe reading retardation as determined by Reading Specialist and school.
2.	Severe arithmetic retardation.
3.	Speech and language problems as determined by Speech Correctionist or Hearing Therapist.
•	Course failure in any two or more courses during the last school year.
2,	Absenteeism of an excessive nature, 20 days or more in the last school year.
• •	Evidence of health problems as determined by school health team.
7	Two or more school transfers for any reason during the last school year.
• • • • • • • • • • • • • • • • • • • •	Evidence of behavioral problems and active referral to the Department of Pupil PersonnelSarvices.
•	Evidence of economic need (such as free lunch, clothing and aid from P.T.A. or other groups)
10.	

October 1967

Dept. of Research, Budget and Legislation
Public Schools of the
District of Columbia
1411 K Street, N. W.
Washington, D. C. 20005

STUDENT EVALUATION FORM

(1-3)	School Code	School	Name
(4-9)	Ident. Number		
	Name of Pupil Last Sex: 1. boy 2. girl	Fir	rst Middle
(27-28)	Present Grade		
(29-34)	Date of Birth / / / Mo. Day		
Name of	Parent or Guardian Last		rst Middle
Address			
Please	evaluate this student on the foll	lowing	(check the ones that apply)
(35)	How well does he apply himself to his school work? 1Above average 2Average 3Below average	(39)	How favorably is his attitude toward school? 1Above average 2Average 3Below average
(36)	•	(40)	How well can you understand him when he speaks? 1Above average 2Average 3Below average
(37)	How well does he get along with the other children? 1Above average 2Average 3Below average	(41)	How well does he like, or is he learning, to read? 1Above average 2Average 3Below average
(38)	How is his emotional maturity? 1. Above average 2. Average 3. Below average		How does his home environment effect his school performance? 1Favorably 2Neither favorably nor unfavorably 3Unfavorably

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W-3

(43)	How good is his health? 1Above average 2Average 3Below average	(44)	How well does h 1Above av 2Average 3Below av	•
	swering the next eight ques ch scale by making a check			
(45)	Defiant			Submissive
(46)	Uncooperative			Cooperative
(47)	Friendly			Hostile .
(48)	Shy			Aggressive
(49)	Irresponsible			Responsible
(50)	Neat			Unkempt
(51)	Follower			Leader
(52)	Alert			Du11
(53-5	5) How many days has this s been absent for any reas the first of this school	on since (6	s he been in any 0) 1No 2Yes	of the following: Social Adjustment Class?
		_ days (6	1) 1No 2Yes	Ungraded program
(56-58	8) How many days has he bee absent unexcused?	en (6	2) 1No 2Yes	Team teaching program
(59)	Was this student in a speducation class this year lNo 2Yes	ecial	classroom tim classroom wit present? 1None 2Some,	e, what part of his e is spent in a h a teacher-aide but less than 1/2 /2 but less than all e time
Date	filled in	Teache	rs's signature	

ERIC Full Text Provided by ERIC

The George Washington University

PUPIL PERSONNEL SERVICES TEAM

		dent			n. (n. n. r.	- C-BD\	_
	I.D (1-			EVALUATION FO	RM_(REV.	(SED)	•
	Chu	dent's Na					Birth date / / /
		10)	Last	First	Ŋ	1 i dd1	
	Sch	001			_ School (11-)	L Cod L3)	e Grade Sex (16)
	P1e	ase check	the appropriate	esponse.			
	Abo	ut the st	dent himself:		About	the	student's family and home:
(17)	1.	school?	rable is his attit	ude toward	(24)	8.	How much education does his family want the subject to have? A. Some high school
		В.	Above average Average Below average				B. To graduate from high school C. Some college D. To graduate from college
(18)	2.	he speak	can you understar s? Very Well About average	nd him when	(25)	9.	What do the parents expect of the school system?
(19)	3.	c.	Not very well Hard to understar have trouble becau				
		B.	? Very often Occasionally Never		(26)	10.	How does his home compare with others in the neighborhood? A. Above average
(20)	4.	A.	get in trouble wit Very often Occasionally	th the police?			B. Average C. Below average
(21)	5.		Never get in trouble wit	th neighbors?	(27)	11.	Which of the following describes how the inside of his home is kept?
(==,		A. B. C.	Very often Occasionally Never				A. Clean, neat, and well organized B. Average C. Unkempt and disorderly
(22)	6.	withdraw A. B.	nave problems becan? Very often Occasionally Never	use of being	(28)	12.	Does he have an adequate place to study? A. Quite adequate B. Barely adequate C. Not adequate at all
(23)	7.	A. B. C.	personal books do Many (more than to A few (three to to One or two None	en)	(29) 4		
(3)	CUI	r c7_17_47	,				

In answering the next six questions, please indicate where he stands on each scale by making a check mark in one of the five places. COOPERATIVE 14. UNCOOPERATIVE **HOSTILE** FRIENDLY (31)15. **AGGRESSIVE** (32) SHY 16. **RESPONSIBLE** 17. IRRESPONSIBLE (33)UNKEMPT NEAT (34)18. DULL **ALERT** (35) 19. 23. What problems does this student 20. How was this student referred to (36)have? (MARK ALL THAT APPLY) your team the first time? (41) No problems A. Principal/Asst. Principal Physical (medical) problems (42)Guidance Counselor B. В. Slow learning problems C. (43) C. Teacher (44)D. Attendance School Nurse E. Emotional Other school source (Explain) (45) Behavioral (adjustment) F. (46)G. Poor motivation (47) Other (please explain) H. (48)F. Non-school source (Explain) 24. Have you referred this student to Case assigned G. any of the following? (MARK ALL THAT APPLY) 21. How many contacts has your team had with this student? Clinical Team (49)A. (50) В. Reading Clinic (37-38)contacts C. Speech Clinic (51)D. Urban Service Corps **(52)** Other (specify) (53) E. 22. How many contacts has your team had with his parents/guardians? contacts (39-40)25. Remarks: _____ Pupil Personnel Worker's Signature Date form completed: (54-55) Team No.

The following section is to be filled in by members of the Team from personal observation:

